

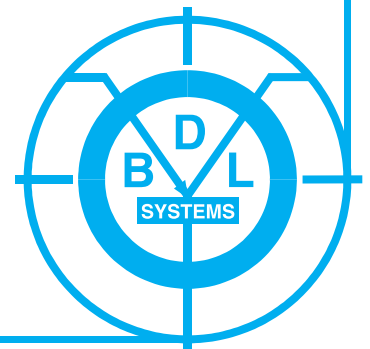
SHRIKE

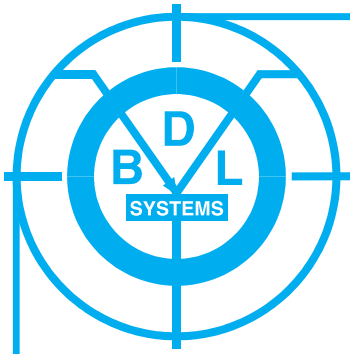
EXPLODER



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Specification

<u>Specification</u>	<u>MKV</u>	<u>MKIV</u>
Size	140mm x 95mm x 45mm	140mm x 95mm x 45mm
Unit Weight	420g	420g
Case Material	Impact-Resistant Plastic	Impact-Resistant Plastic
Finish (as standard)	Non-Reflective Drab Olive	Non-Reflective Drab Olive
Output Connections	Up to 4 separate circuits	Up to 4 separate circuits
Controls	Pushbutton	Pushbutton
Indicators	LED	LED
Operating Temperature Range	-40°C to +55°C	-40°C to +55°C
Storage Temperature range	-55°C to +70°C	-55°C to +70°C
Immersion	0-100% Splash proof	0-100% Splash proof
Output Voltage	319-400V	719-800V
Output Energy	Typically 12J /Minimum 6.8J	Typically 48J /Minimum 35J
Output Load	Up to 400Ohms each circuit	Up to 350Ohms each circuit*
Arming Time	Typically 2 seconds	Typically 6-8 seconds

*LED Indication at 85 Ohms for threshold of firing (VA type) insensitive detonators

Introduction

SHRIKE is a fully approved hard wire exploder which is currently in service with more than 44 countries worldwide. From the arctic to the tropics it has proven itself as a safe, reliable and cost effective system for the initiation of explosives, mines, pyrotechnics and other electro-explosive devices (EED). Two versions of SHRIKE are available. SHRIKE MKV is for use with standard NATO detonators and SHRIKE MKIV for the latest VA safety detonators which require a higher energy firing output.

Operation

The four independent firing circuits are connected by means of spring loaded terminals. Circuit continuity is checked by operating the appropriate TEST button. Operating the PRIME button causes the "READY" LED to flash, indicating that the circuit is primed. This typically takes two seconds with the MKV and six seconds for the MKIV version. While the "READY" LED is flashing, the load circuit may be fired by operating the appropriate Circuit Select and FIRE buttons simultaneously. The short recycle time of the SHRIKE permits rapid, individual firing of all four circuits, giving seven to eight times the potential detonating power of conventional dynamo type initiators. A range of accessories are available for use with the SHRIKE, including Shock Tube Adaptors, Battery Chargers and Test Meters.

Safety Features

The SHRIKE must be primed before any circuit can be fired, and firing requires the operation of two independent push buttons. The output is inhibited when the initiator is not fully primed, thus preventing partial firing. For the MKV, output energy cannot be released into a circuit whose resistance is more than 400 Ohms, and for the MKIV, a circuit of more than 350 Ohms. Both these resistances are well below that of the human body, therefore completely eliminating any electrical hazard to the operator.

BDL can justifiably claim to be the **Global** lead supplier of Initiator and Exploder products, having exported to Defence and Security Sectors in over 60 countries worldwide during the company's thirty year history. The company operates a Quality Management System that has been assessed to BS EN ISO9901 (BS5750-Part 1).

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